

1 PET-based microplastics enter Plastiback's degradation compartment

2 *E. coli* secretes PETase and converts PET into TPA and ethylene glycol

3 TPA enters Plastiback's microbial fuel cell compartment where it's used as a carbon source by *Delftia tsuruhatensis*

4 The electricity generated by *Delftia*'s metabolism of PTA power a GPS ping that transmits the plastic's location to researchers around the world!

